



A03 Certificate No. 1937/4-2013 1/3  
Advice No. A130425019

A02 Test Report  
according to ASTM A6

A01 Stahlwerk Thüringen GmbH  
A05 Quality Assurance Department  
Kronacher Straße 6  
07333 Unterwellenborn  
Germany

A04 (SWT)  
A06 Plesa Anahuac y Cias, S.A. de C.V.  
Colonia San Francisco Chilpan  
Av. Valle de las Alamedas N°66  
54490 Tultitlan  
MEXICO

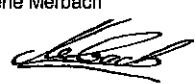
A08 Our Order No.: 2035817113  
A07 Your Order No.: 168

B02 Quality: A992 DUAL  
according to: ASTM A992 - ASTM A572 GR50  
FINE GRAIN SILICON KILLED

Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	32623	C 10X15,3	480 in	198	54 967 kg
001	32624	C 10X15,3	480 in	270	74 955 kg
001	32625	C 10X15,3	480 in	83	23 042 kg
002	32629	C 10X20	480 in	42	15 240 kg
002	32630	C 10X20	480 in	220	79 829 kg
003	32616	C 10X25	480 in	30	13 608 kg
003	32617	C 10X25	480 in	120	54 432 kg
003	32618	C 10X25	480 in	80	36 288 kg

Heat Analysis [%]										
Heat No.	C	Si	Mn	P	S	N	Nb	V	Cr	Cu
B07	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80
max	0.23	0.40	1.50	0.035	0.045	0.012	0.050	0.110	0.35	0.60
min		0.10	0.50				0.005			
32616	0.09	0.20	1.15	0.020	0.024	0.009	0.015	0.007	0.11	0.26
32617	0.08	0.19	1.14	0.016	0.023	0.009	0.015	0.006	0.08	0.29
32618	0.08	0.18	1.14	0.018	0.025	0.010	0.015	0.007	0.09	0.29
32623	0.09	0.19	1.13	0.014	0.020	0.009	0.016	0.006	0.09	0.34
32624	0.08	0.17	1.11	0.016	0.022	0.008	0.017	0.007	0.08	0.31
32625	0.08	0.17	1.11	0.016	0.022	0.008	0.017	0.007	0.08	0.31
32629	0.09	0.19	1.16	0.024	0.027	0.009	0.015	0.006	0.10	0.33
32630	0.09	0.20	1.14	0.021	0.023	0.009	0.017	0.006	0.09	0.35

Heat Analysis [%]				
Heat No.	Ni	Mo	CEV1	Sn
B07	C81	C82	C83	C83
max	0.45	0.15	0.45	
min				
32616	0.16	0.03	0.34	0.011
32617	0.15	0.03	0.33	0.014
32618	0.14	0.03	0.32	0.013
32623	0.19	0.03	0.34	0.012
32624	0.16	0.03	0.32	0.014

Z03 Works inspector  
René Merbach  
  
Z02 Apr 25, 2013



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FINE GRAIN SILICON KILLED

Heat Analysis [%]

Heat No.	Ni	Mo	CEV1	Sn
B07	C71	C72	C93	C73
max	0.45	0.15	0.45	
min				
32625	0.16	0.03	0.32	0.014
32629	0.16	0.03	0.34	0.015
32630	0.17	0.04	0.35	0.016

Tensile test (ISO 6892-1: B20)

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
B07	C11	C12	C13	C14
max	65000			0.85
min	50000	65000	21.0	
32616/1	52780	72500	42.2	0.73
32616/2	56260	73950	42.9	0.76
32617/1	52200	71340	43.6	0.73
32617/2	55245	73225	43.6	0.75
32618/1	52635	71775	44.9	0.73
32618/2	54665	73370	43.6	0.75
32623/1	53360	73950	40.9	0.72
32623/2	57130	73370	43.6	0.78
32624/1	52925	73225	42.2	0.72
32624/2	55825	73515	43.6	0.76
32625/1	53940	72935	39.6	0.74
32625/2	55825	73515	43.6	0.76
32629/1	55100	77575	38.3	0.71
32629/2	56115	73370	42.9	0.76
32630/1	54230	75835	38.3	0.72
32630/2	57565	73515	42.9	0.78

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FINE GRAIN SILICON KILLED

B14

- electric arc melting
- controlled rolled
- surface condition without complaint

We confirm herewith that the delivered material complies with the terms of the order.

Z03

Works inspector  
René Merbach

Z02

Apr 25, 2013